Serial N .: 09/039,927 Filed: March 16, 1998

## **AMENDMENT**

## In the Specification

Please replace the paragraph beginning at page 4, lines 9-15, with the following rewritten paragraph:

E1

- Figures 1A-C show inward currents evoked by high K<sup>+</sup>, 5HT and ACh in RNA-injected oocytes. (A) I<sub>hk</sub> and I<sub>5HT</sub> in an oocyte injected with atrial RNA + 5HT1A-R RNA. Holding potential in this and all following figures was -80mV. (B) Inward currents evoked by ACh (AcCHo) and 5HT in a single oocyte in hK solution. (C) The dependence of I<sub>5HT</sub> amplitude on 5HT concentration in oocytes of one frog. In each oocyte, the response to one 5HT concentration was tested. Data represent mean±SEM in 4-6 cells at each concentration.—

Please replace the paragraph beginning at page 4, lines 16-26, with the following rewritten paragraph:

EZ-

- Figures 2A-D depict that  $I_{hk}$  and  $I_{5HT}$  are inwardly rectifying K<sup>+</sup> currents. (A) Currents evoked by voltage steps from the holding potential of -80 mV to voltages between -140 and 40 mV in 20 mV steps in ND96(a), hK (b), hK in the presence of 5HT (c). Net  $I_{5HT}$  (d) was obtained by digital subtraction of (b) from (c). (B) Current-voltage relations of the total membrane current in a representative oocyte in NG 96 (2 mM [K<sub>out</sub>]; □), in 25 mM [K<sup>+</sup><sub>out</sub>]♦); in 75 mM [K<sub>out</sub>] O, and in hK (96 mM [K<sub>out</sub>]; ♠). (C) Current-voltage relation of the net  $I_{5HT}$  in the same oocyte as in (B) in 25 mM [K<sub>out</sub>]♦); 75 mM [K<sub>out</sub>] O, and 96 mM [K<sub>out</sub>] ♠. (D) The dependence of the reversal potentials of total membrane current ♠ and of  $I_{5HT}$  ♠ on [K<sub>out</sub>]. The straight lines represent least square fits to data (mean±SEM, n=3 for each point).—

Please replace the paragraph beginning at page 4, lines 27-28 and page 5, lines 1-6, with the following rewritten paragraph:

E3

- Figures 3A-D depict the Ba<sup>2+</sup> block of  $I_{hk}$  and  $I_{SHT}$ . (A-C) show records taken from the same oocyte at 10 min intervals. Between the records, the cell was bathed in ND96. 5HT concentration was 4 nM. Note that in (B) 300 μM Ba<sup>2+</sup> reduces  $I_{hK}$  and almost completely blocks  $I_{SHT}$ . Ba<sup>2+</sup> and 5HT were washed out simultaneously, and this resulted in an inward curent "tail". (D) dose dependence of BA<sup>2+</sup> inhibition of  $I_{hK}$  in native oocytes  $\bigcirc$ ,  $I_{hk}$  in RNA-injected oocytes  $\bigcirc$ . Data are mean±SEM, n=3 to 7 for each point.—